

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8SNLED-LD5-200HL-LW-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-200HL-LW-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

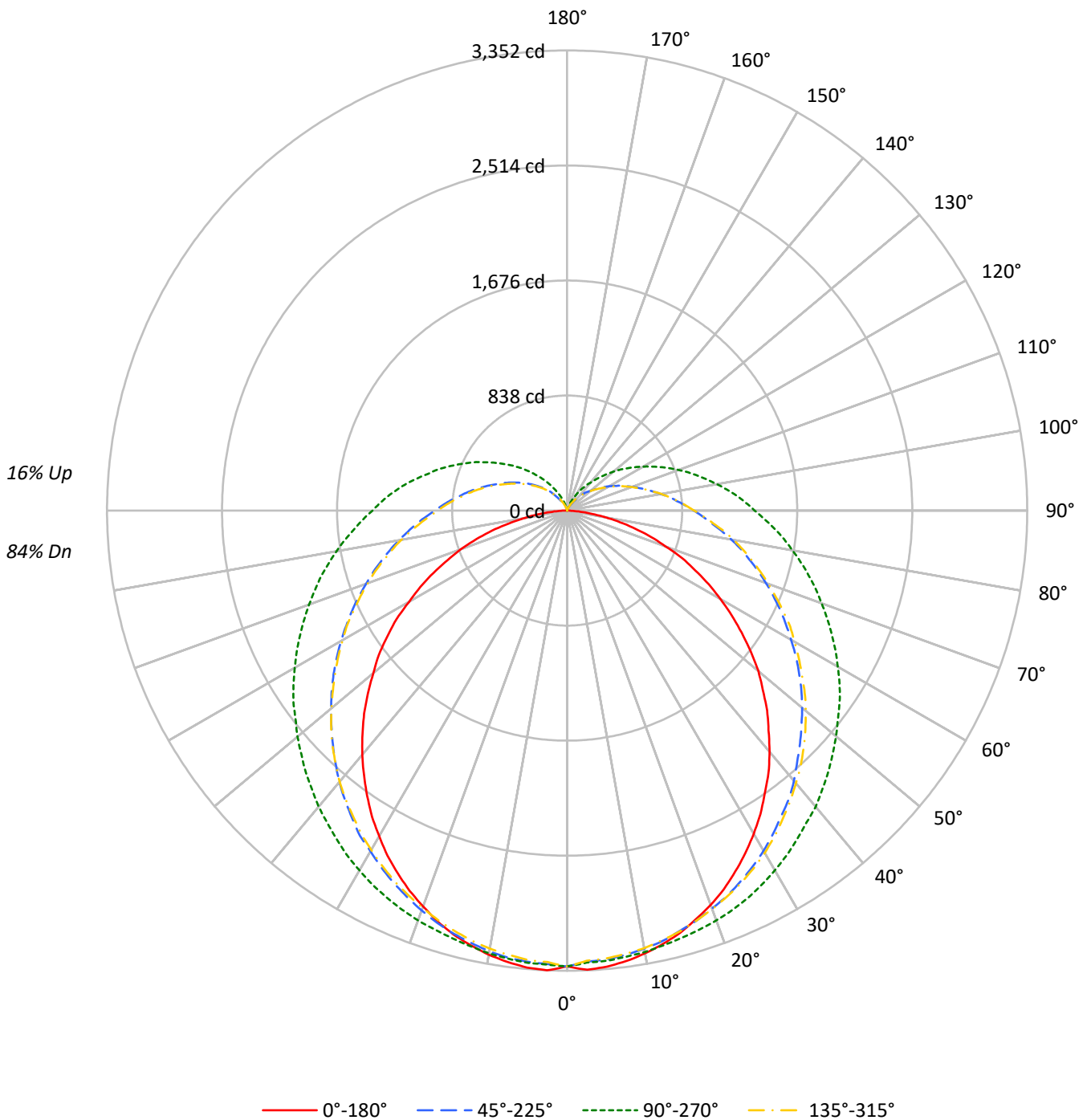
Lumens per Lamp: N/A
Luminaire Lumens: 14426.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 158
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64
2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54	51
3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45	42
4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38	35
5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33	30
6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28	26
7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25	23
8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22	20
9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20	18
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13416	13416	13416	13416
5°	13506	12929	13534	12984
10°	13399	12562	13442	12602
15°	13262	12248	13321	12261
20°	13073	12018	13119	12018
25°	12836	11814	12913	11801
30°	12568	11604	12665	11604
35°	12253	11410	12390	11424
40°	11944	11296	12090	11296
45°	11587	11176	11764	11190
50°	11218	11105	11369	11135
55°	10692	11115	11030	11164
60°	10141	11149	10472	11218
65°	9526	11261	9947	11373
70°	8650	11469	9324	11631
75°	7647	11843	8370	12071
80°	6064	12398	6887	12686
85°	3859	13290	4822	13658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.5	2.2
10°-20°	904.0	6.3
20°-30°	1386.0	9.6
30°-40°	1709.9	11.9
40°-50°	1855.1	12.9
50°-60°	1828.5	12.7
60°-70°	1653.2	11.5
70°-80°	1377.2	9.5
80°-90°	1066.7	7.4
90°-100°	809.0	5.6
100°-110°	598.7	4.2
110°-120°	416.4	2.9
120°-130°	265.7	1.8
130°-140°	149.1	1.0
140°-150°	68.1	0.5
150°-160°	21.1	0.1
160°-170°	2.7	0.0
170°-180°	0.0	0.0
0°-30°	2604.6	18.1
0°-40°	4314.5	29.9
0°-60°	7998.1	55.4
0°-90°	12095.3	83.8
90°-120°	1824.1	12.6
90°-150°	2307.0	16.0
90°-180°	2331.0	16.2
0°-180°	14426.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3320	3320	3320	3320	3320	
5°	3334	3292	3342	3306	3334	316
15°	3184	3222	3198	3226	3184	897
25°	2900	3114	2918	3110	2900	1336
35°	2511	2921	2539	2925	2511	1573
45°	2060	2690	2091	2694	2060	1587
55°	1552	2424	1601	2434	1552	1389
65°	1030	2126	1075	2147	1030	1021
75°	518	1821	567	1856	518	549
85°	98	1517	123	1559	98	119
90°	4	1366	7	1418	4	5
95°	4	1240	4	1300	4	3
105°	4	984	4	1044	4	4
115°	4	750	4	816	4	3
125°	4	539	4	599	4	3
135°	4	350	4	413	4	3
145°	4	203	4	249	4	2
155°	4	84	4	116	4	2
165°	4	14	4	21	4	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4
2.5°	3348.5	3348.5	3345.0	3338.0	3341.5	3352.0	3345.0	3327.4	3316.9	3288.9	3295.9
5°	3334.5	3334.5	3330.9	3323.9	3327.4	3341.5	3334.5	3320.4	3306.4	3281.9	3292.4
7.5°	3309.9	3309.9	3306.4	3299.4	3306.4	3320.4	3313.4	3299.4	3288.9	3264.4	3274.9
10°	3274.9	3278.4	3274.9	3264.4	3278.4	3292.4	3288.9	3271.4	3260.9	3239.9	3250.4
12.5°	3232.9	3236.4	3232.9	3229.4	3236.4	3257.4	3250.4	3236.4	3229.4	3211.9	3222.4
15°	3183.8	3187.3	3180.3	3180.3	3187.3	3208.4	3208.4	3194.3	3187.3	3169.8	3190.8
17.5°	3120.8	3124.3	3120.8	3120.8	3127.8	3148.8	3152.3	3145.3	3138.3	3131.3	3152.3
20°	3057.7	3054.2	3054.2	3050.7	3064.8	3096.3	3092.8	3092.8	3085.8	3085.8	3110.3
22.5°	2984.2	2984.2	2980.7	2980.7	2998.2	3026.2	3026.2	3033.2	3026.2	3040.2	3061.3
25°	2900.1	2903.6	2900.1	2907.1	2921.1	2952.7	2956.2	2966.7	2970.2	2984.2	3008.7
27.5°	2812.6	2816.1	2812.6	2819.6	2844.1	2868.6	2886.1	2900.1	2903.6	2924.7	2956.2
30°	2718.0	2718.0	2721.5	2728.5	2756.5	2795.1	2809.1	2826.6	2826.6	2861.6	2893.1
32.5°	2619.9	2619.9	2619.9	2633.9	2665.5	2711.0	2728.5	2749.5	2756.5	2791.6	2826.6
35°	2511.3	2514.8	2514.8	2525.4	2567.4	2612.9	2637.4	2662.0	2676.0	2718.0	2753.0
37.5°	2409.8	2416.8	2406.3	2420.3	2479.8	2518.4	2546.4	2570.9	2595.4	2651.4	2679.5
40°	2294.2	2301.2	2297.7	2325.7	2374.7	2423.8	2455.3	2479.8	2514.8	2570.9	2602.4
42.5°	2171.6	2178.6	2185.6	2217.1	2269.7	2318.7	2357.2	2388.8	2430.8	2479.8	2532.4
45°	2059.5	2059.5	2070.0	2108.6	2164.6	2217.1	2262.7	2297.7	2346.7	2399.3	2451.8
47.5°	1933.4	1936.9	1950.9	1996.5	2056.0	2119.1	2161.1	2206.6	2259.2	2315.2	2374.7
50°	1817.8	1817.8	1838.9	1887.9	1943.9	2014.0	2059.5	2112.1	2168.1	2234.6	2294.2
52.5°	1684.7	1691.7	1723.3	1768.8	1842.4	1905.4	1957.9	2014.0	2080.5	2150.6	2217.1
55°	1551.6	1565.7	1590.2	1653.2	1730.3	1789.8	1852.9	1922.9	1986.0	2063.0	2140.1
57.5°	1422.0	1432.6	1471.1	1534.1	1614.7	1688.2	1754.8	1821.3	1898.4	1975.5	2056.0
60°	1288.9	1303.0	1348.5	1411.5	1499.1	1576.2	1653.2	1723.3	1803.8	1884.4	1968.4
62.5°	1162.9	1173.4	1225.9	1299.5	1387.0	1471.1	1548.1	1632.2	1719.8	1796.8	1880.9
65°	1029.8	1047.3	1106.8	1173.4	1274.9	1359.0	1446.6	1537.6	1628.7	1712.8	1793.3
67.5°	907.2	917.7	980.7	1057.8	1159.4	1253.9	1345.0	1443.1	1537.6	1625.2	1705.8
70°	763.6	798.6	861.6	942.2	1050.8	1148.8	1246.9	1348.5	1450.1	1541.1	1618.2
72.5°	644.5	672.5	742.5	830.1	935.2	1050.8	1152.3	1260.9	1362.5	1457.1	1537.6
75°	518.4	546.4	627.0	725.0	833.6	956.2	1061.3	1173.4	1278.4	1373.0	1457.1
77.5°	395.8	430.8	518.4	620.0	739.0	865.1	973.7	1085.8	1194.4	1296.0	1380.0
80°	283.7	322.2	416.8	532.4	648.0	774.1	893.2	1005.2	1113.8	1215.4	1303.0
82.5°	182.1	224.2	325.7	441.3	563.9	690.0	812.6	924.7	1033.3	1134.8	1225.9
85°	98.1	143.6	248.7	364.3	486.9	613.0	735.5	854.6	959.7	1054.3	1152.3
87.5°	28.0	84.1	185.6	301.2	427.3	542.9	662.0	781.1	886.2	987.7	1075.3
90°	3.5	49.0	140.1	248.7	371.3	483.4	602.4	714.5	819.6	921.2	1008.7
92.5°	3.5	31.5	108.6	206.7	318.7	434.3	553.4	662.0	760.1	861.6	949.2
95°	3.5	24.5	87.6	175.1	280.2	388.8	500.9	605.9	707.5	802.1	889.7
97.5°	3.5	17.5	70.1	150.6	245.2	346.8	455.3	560.4	658.5	749.6	830.1
100°	3.5	14.0	56.0	129.6	213.7	311.7	409.8	511.4	605.9	693.5	777.6
102.5°	3.5	10.5	49.0	108.6	189.1	276.7	371.3	465.8	556.9	641.0	725.0
105°	3.5	10.5	42.0	94.6	168.1	248.7	336.2	427.3	511.4	591.9	669.0
107.5°	3.5	7.0	35.0	80.6	147.1	224.2	304.7	392.3	469.3	546.4	620.0
110°	3.5	7.0	28.0	73.6	129.6	199.6	276.7	357.3	430.8	504.4	574.4



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CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	3.5	7.0	24.5	63.0	112.1	178.6	248.7	322.2	392.3	465.8	528.9
115°	3.5	7.0	21.0	56.0	105.1	154.1	224.2	290.7	360.8	427.3	486.9
117.5°	3.5	7.0	17.5	45.5	91.1	140.1	196.1	262.7	325.7	388.8	444.8
120°	3.5	7.0	14.0	42.0	80.6	126.1	175.1	234.7	294.2	353.8	413.3
122.5°	3.5	3.5	14.0	35.0	70.1	112.1	161.1	206.7	262.7	318.7	371.3
125°	3.5	3.5	14.0	31.5	59.5	101.6	143.6	185.6	234.7	283.7	329.2
127.5°	3.5	3.5	10.5	24.5	52.5	87.6	126.1	171.6	206.7	252.2	297.7
130°	3.5	3.5	10.5	21.0	45.5	73.6	112.1	150.6	192.6	224.2	262.7
132.5°	3.5	3.5	10.5	17.5	35.0	59.5	94.6	129.6	168.1	203.1	234.7
135°	3.5	3.5	7.0	14.0	28.0	49.0	77.1	108.6	147.1	182.1	213.7
137.5°	3.5	3.5	7.0	14.0	21.0	42.0	59.5	87.6	122.6	154.1	185.6
140°	3.5	3.5	7.0	10.5	17.5	31.5	49.0	70.1	98.1	126.1	161.1
142.5°	3.5	3.5	3.5	10.5	14.0	24.5	38.5	56.0	77.1	101.6	129.6
145°	3.5	3.5	3.5	10.5	14.0	17.5	31.5	45.5	59.5	77.1	101.6
147.5°	3.5	3.5	3.5	7.0	10.5	14.0	24.5	35.0	45.5	59.5	73.6
150°	3.5	3.5	3.5	7.0	10.5	14.0	17.5	24.5	35.0	49.0	59.5
152.5°	3.5	3.5	3.5	7.0	7.0	10.5	14.0	17.5	24.5	35.0	42.0
155°	3.5	3.5	3.5	3.5	7.0	10.5	14.0	14.0	17.5	24.5	31.5
157.5°	3.5	3.5	3.5	3.5	7.0	7.0	10.5	10.5	14.0	14.0	21.0
160°	3.5	3.5	3.5	3.5	3.5	7.0	7.0	10.5	10.5	10.5	10.5
162.5°	3.5	3.5	3.5	3.5	3.5	3.5	7.0	7.0	7.0	10.5	10.5
165°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	7.0	7.0	7.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4
2.5°	3295.9	3299.4	3309.9	3309.9	3302.9	3302.9	3299.4	3295.9	3299.4	3306.4	3306.4
5°	3288.9	3292.4	3302.9	3306.4	3299.4	3295.9	3295.9	3292.4	3295.9	3302.9	3302.9
7.5°	3274.9	3278.4	3288.9	3292.4	3285.4	3285.4	3281.9	3278.4	3285.4	3288.9	3288.9
10°	3253.9	3257.4	3271.4	3274.9	3271.4	3267.9	3267.9	3264.4	3267.9	3274.9	3274.9
12.5°	3225.9	3232.9	3250.4	3250.4	3250.4	3246.9	3246.9	3243.4	3246.9	3253.9	3250.4
15°	3194.3	3208.4	3222.4	3229.4	3229.4	3229.4	3225.9	3222.4	3229.4	3232.9	3229.4
17.5°	3159.3	3176.8	3197.9	3204.9	3204.9	3208.4	3204.9	3201.4	3208.4	3208.4	3204.9
20°	3124.3	3141.8	3162.8	3169.8	3176.8	3180.3	3180.3	3176.8	3180.3	3183.8	3180.3
22.5°	3078.8	3099.8	3124.3	3134.8	3141.8	3148.8	3148.8	3148.8	3152.3	3155.8	3148.8
25°	3029.7	3054.2	3082.3	3092.8	3106.8	3110.3	3113.8	3113.8	3117.3	3120.8	3110.3
27.5°	2977.2	3005.2	3033.2	3050.7	3061.3	3068.3	3068.3	3071.8	3075.3	3078.8	3068.3
30°	2914.1	2956.2	2980.7	2994.7	3008.7	3019.2	3022.7	3026.2	3029.7	3033.2	3022.7
32.5°	2858.1	2893.1	2924.7	2942.2	2959.7	2973.7	2977.2	2977.2	2984.2	2984.2	2973.7
35°	2791.6	2833.6	2865.1	2882.6	2903.6	2914.1	2921.1	2921.1	2928.2	2928.2	2917.6
37.5°	2725.0	2767.0	2802.1	2823.1	2847.6	2861.6	2865.1	2865.1	2872.1	2872.1	2858.1
40°	2655.0	2700.5	2739.0	2763.5	2784.5	2802.1	2805.6	2816.1	2816.1	2812.6	2798.6
42.5°	2584.9	2626.9	2669.0	2697.0	2725.0	2742.5	2749.5	2753.0	2753.0	2749.5	2739.0
45°	2507.8	2556.9	2595.4	2630.4	2658.5	2676.0	2686.5	2690.0	2690.0	2683.0	2672.5
47.5°	2434.3	2483.3	2521.9	2560.4	2588.4	2609.4	2619.9	2623.4	2619.9	2616.4	2605.9
50°	2357.2	2413.3	2451.8	2490.3	2518.4	2535.9	2553.4	2556.9	2553.4	2549.9	2528.9
52.5°	2276.7	2336.2	2378.2	2416.8	2448.3	2469.3	2483.3	2486.8	2486.8	2479.8	2465.8
55°	2196.1	2248.7	2301.2	2343.2	2378.2	2399.3	2416.8	2423.8	2416.8	2409.8	2392.3
57.5°	2122.6	2171.6	2224.1	2269.7	2304.7	2332.7	2346.7	2353.7	2346.7	2336.2	2318.7
60°	2035.0	2087.5	2147.1	2189.1	2227.6	2255.7	2262.7	2276.7	2269.7	2259.2	2241.6
62.5°	1950.9	2014.0	2066.5	2119.1	2150.6	2182.1	2196.1	2203.1	2196.1	2185.6	2168.1
65°	1863.4	1933.4	1986.0	2038.5	2073.5	2105.0	2122.6	2126.1	2119.1	2108.6	2091.0
67.5°	1782.8	1849.4	1905.4	1961.4	1993.0	2024.5	2042.0	2049.0	2042.0	2028.0	2010.5
70°	1702.3	1768.8	1835.3	1877.4	1915.9	1950.9	1961.4	1972.0	1964.9	1950.9	1929.9
72.5°	1621.7	1691.7	1758.3	1800.3	1842.4	1873.9	1887.9	1898.4	1891.4	1877.4	1852.9
75°	1537.6	1611.2	1677.7	1723.3	1765.3	1796.8	1810.8	1821.3	1814.3	1800.3	1772.3
77.5°	1460.6	1534.1	1597.2	1646.2	1688.2	1716.3	1740.8	1744.3	1737.3	1723.3	1695.2
80°	1380.0	1453.6	1520.1	1569.2	1611.2	1639.2	1656.7	1667.2	1660.2	1646.2	1618.2
82.5°	1310.0	1376.5	1443.1	1492.1	1534.1	1569.2	1583.2	1593.7	1590.2	1569.2	1548.1
85°	1232.9	1310.0	1362.5	1415.0	1457.1	1492.1	1502.6	1516.6	1513.1	1495.6	1467.6
87.5°	1155.9	1232.9	1296.0	1348.5	1387.0	1415.0	1432.6	1439.6	1436.1	1418.5	1387.0
90°	1092.8	1162.9	1225.9	1281.9	1313.5	1345.0	1362.5	1366.0	1366.0	1345.0	1320.5
92.5°	1033.3	1099.8	1162.9	1215.4	1253.9	1281.9	1296.0	1303.0	1299.5	1281.9	1253.9
95°	966.7	1040.3	1099.8	1152.3	1190.9	1218.9	1232.9	1239.9	1236.4	1218.9	1190.9
97.5°	910.7	977.2	1036.8	1085.8	1124.3	1152.3	1166.4	1173.4	1173.4	1155.9	1127.8
100°	854.6	921.2	977.2	1026.3	1061.3	1089.3	1103.3	1106.8	1103.3	1089.3	1061.3
102.5°	798.6	861.6	917.7	963.2	1001.7	1026.3	1040.3	1043.8	1043.8	1026.3	998.2
105°	742.5	805.6	858.1	907.2	938.7	963.2	973.7	984.2	980.7	966.7	938.7
107.5°	690.0	753.1	802.1	847.6	879.1	903.7	914.2	924.7	921.2	907.2	879.1
110°	641.0	700.5	746.0	791.6	819.6	844.1	861.6	865.1	858.1	844.1	819.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	595.4	648.0	693.5	735.5	767.1	784.6	798.6	805.6	798.6	784.6	767.1
115°	546.4	598.9	644.5	683.0	711.0	732.0	742.5	749.6	742.5	728.5	711.0
117.5°	500.9	549.9	595.4	634.0	658.5	676.0	686.5	693.5	686.5	676.0	658.5
120°	462.3	504.4	546.4	581.4	609.4	623.5	634.0	641.0	637.5	623.5	605.9
122.5°	416.8	462.3	500.9	535.9	560.4	574.4	581.4	588.4	584.9	574.4	556.9
125°	378.3	416.8	455.3	486.9	511.4	525.4	532.4	539.4	535.9	525.4	504.4
127.5°	336.2	378.3	409.8	441.3	458.8	479.9	483.4	490.4	486.9	476.4	458.8
130°	304.7	336.2	367.8	395.8	416.8	430.8	437.8	441.3	434.3	427.3	409.8
132.5°	266.2	301.2	329.2	353.8	367.8	381.8	388.8	392.3	392.3	381.8	367.8
135°	238.2	262.7	287.2	311.7	325.7	339.7	346.8	350.3	346.8	339.7	325.7
137.5°	213.7	234.7	252.2	273.2	290.7	297.7	304.7	304.7	301.2	297.7	287.2
140°	185.6	210.2	227.7	241.7	255.7	259.2	266.2	266.2	262.7	259.2	252.2
142.5°	157.6	178.6	196.1	213.7	224.2	231.2	234.7	238.2	234.7	231.2	220.7
145°	126.1	150.6	168.1	178.6	192.6	196.1	199.6	203.1	199.6	196.1	185.6
147.5°	98.1	119.1	136.6	150.6	161.1	164.6	168.1	171.6	168.1	161.1	157.6
150°	70.1	87.6	108.6	122.6	129.6	136.6	136.6	136.6	140.1	133.1	126.1
152.5°	56.0	63.0	77.1	91.1	101.6	105.1	108.6	108.6	105.1	105.1	98.1
155°	38.5	45.5	56.0	66.5	77.1	80.6	84.1	84.1	80.6	80.6	77.1
157.5°	24.5	31.5	38.5	45.5	56.0	59.5	63.0	63.0	63.0	59.5	56.0
160°	14.0	17.5	21.0	28.0	35.0	38.5	42.0	42.0	42.0	42.0	38.5
162.5°	10.5	10.5	10.5	14.0	17.5	21.0	24.5	24.5	24.5	24.5	21.0
165°	7.0	7.0	7.0	7.0	7.0	10.5	14.0	14.0	14.0	14.0	14.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4
2.5°	3302.9	3302.9	3306.4	3299.4	3278.4	3281.9	3281.9	3295.9	3302.9	3306.4	3323.9
5°	3295.9	3295.9	3302.9	3292.4	3274.9	3274.9	3274.9	3288.9	3292.4	3299.4	3313.4
7.5°	3285.4	3285.4	3288.9	3278.4	3257.4	3257.4	3253.9	3267.9	3274.9	3278.4	3292.4
10°	3267.9	3267.9	3271.4	3260.9	3236.4	3236.4	3232.9	3243.4	3246.9	3253.9	3264.4
12.5°	3243.4	3243.4	3243.4	3232.9	3208.4	3204.9	3201.4	3211.9	3211.9	3215.4	3225.9
15°	3222.4	3215.4	3215.4	3204.9	3180.3	3173.3	3166.3	3169.8	3176.8	3173.3	3180.3
17.5°	3197.9	3190.8	3183.8	3173.3	3141.8	3131.3	3124.3	3127.8	3124.3	3120.8	3127.8
20°	3169.8	3159.3	3155.8	3138.3	3106.8	3089.3	3075.3	3068.3	3071.8	3061.3	3064.8
22.5°	3138.3	3124.3	3117.3	3096.3	3064.8	3043.7	3026.2	3012.2	3008.7	2994.7	2998.2
25°	3099.8	3082.3	3071.8	3054.2	3019.2	2994.7	2973.7	2952.7	2942.2	2924.7	2921.1
27.5°	3054.2	3036.7	3022.7	3005.2	2970.2	2938.7	2914.1	2886.1	2872.1	2851.1	2840.6
30°	3008.7	2987.7	2966.7	2952.7	2914.1	2879.1	2840.6	2816.1	2795.1	2770.5	2753.0
32.5°	2952.7	2931.7	2910.6	2889.6	2854.6	2812.6	2781.0	2742.5	2718.0	2690.0	2669.0
35°	2896.6	2868.6	2847.6	2819.6	2788.1	2739.0	2700.5	2662.0	2630.4	2598.9	2574.4
37.5°	2833.6	2812.6	2781.0	2756.5	2718.0	2669.0	2626.9	2577.9	2549.9	2507.8	2476.3
40°	2774.0	2749.5	2718.0	2686.5	2647.9	2591.9	2546.4	2490.3	2458.8	2409.8	2378.2
42.5°	2714.5	2679.5	2647.9	2612.9	2570.9	2518.4	2462.3	2406.3	2364.2	2318.7	2273.2
45°	2647.9	2609.4	2570.9	2532.4	2490.3	2437.8	2378.2	2318.7	2266.2	2224.1	2168.1
47.5°	2577.9	2539.4	2493.8	2451.8	2406.3	2353.7	2290.7	2227.6	2171.6	2122.6	2063.0
50°	2507.8	2469.3	2420.3	2374.7	2322.2	2269.7	2203.1	2129.6	2070.0	2007.0	1954.4
52.5°	2434.3	2395.8	2350.2	2290.7	2234.6	2182.1	2112.1	2035.0	1968.4	1915.9	1849.4
55°	2360.7	2322.2	2269.7	2210.1	2154.1	2087.5	2021.0	1943.9	1870.4	1807.3	1740.8
57.5°	2283.7	2248.7	2189.1	2140.1	2070.0	2000.0	1929.9	1856.4	1775.8	1702.3	1625.2
60°	2206.6	2168.1	2112.1	2052.5	1982.5	1912.4	1838.9	1758.3	1674.2	1593.7	1523.6
62.5°	2136.6	2087.5	2035.0	1972.0	1898.4	1831.8	1747.8	1660.2	1576.2	1492.1	1408.0
65°	2056.0	2003.5	1954.4	1891.4	1814.3	1737.3	1653.2	1565.7	1474.6	1383.5	1299.5
67.5°	1975.5	1922.9	1870.4	1807.3	1726.8	1646.2	1558.6	1471.1	1369.5	1281.9	1183.9
70°	1894.9	1852.9	1786.3	1719.8	1646.2	1558.6	1471.1	1376.5	1271.4	1176.9	1075.3
72.5°	1814.3	1772.3	1705.8	1635.7	1565.7	1474.6	1380.0	1285.4	1187.4	1078.8	970.2
75°	1737.3	1684.7	1625.2	1558.6	1485.1	1390.5	1296.0	1197.9	1082.3	980.7	868.6
77.5°	1663.7	1614.7	1555.1	1481.6	1401.0	1310.0	1211.9	1110.3	994.7	886.2	763.6
80°	1583.2	1534.1	1474.6	1401.0	1320.5	1232.9	1127.8	1022.8	910.7	791.6	665.5
82.5°	1506.1	1460.6	1394.0	1327.5	1239.9	1152.3	1047.3	942.2	823.1	707.5	584.9
85°	1425.5	1380.0	1317.0	1246.9	1162.9	1068.3	970.2	865.1	746.0	627.0	504.4
87.5°	1355.5	1303.0	1239.9	1169.9	1085.8	994.7	900.2	788.1	672.5	556.9	430.8
90°	1281.9	1232.9	1169.9	1099.8	1015.7	924.7	826.6	721.5	609.4	490.4	371.3
92.5°	1218.9	1166.4	1106.8	1036.8	952.7	865.1	767.1	662.0	553.4	437.8	322.2
95°	1155.9	1103.3	1047.3	977.2	893.2	805.6	707.5	605.9	500.9	388.8	280.2
97.5°	1085.8	1040.3	984.2	917.7	833.6	749.6	655.0	556.9	455.3	346.8	245.2
100°	1029.8	977.2	924.7	854.6	777.6	697.0	602.4	507.9	409.8	308.2	213.7
102.5°	966.7	917.7	865.1	798.6	721.5	641.0	553.4	462.3	371.3	276.7	185.6
105°	907.2	861.6	805.6	742.5	669.0	591.9	507.9	423.8	336.2	245.2	164.6
107.5°	847.6	802.1	749.6	690.0	620.0	542.9	465.8	381.8	301.2	220.7	147.1
110°	788.1	746.0	697.0	637.5	570.9	500.9	427.3	350.3	269.7	196.1	129.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	735.5	693.5	644.5	588.4	525.4	458.8	388.8	315.2	241.7	175.1	112.1
115°	683.0	644.5	595.4	546.4	483.4	420.3	353.8	283.7	217.2	157.6	98.1
117.5°	630.5	591.9	546.4	497.4	441.3	381.8	318.7	252.2	196.1	140.1	87.6
120°	577.9	542.9	500.9	455.3	406.3	346.8	283.7	227.7	175.1	122.6	77.1
122.5°	528.9	497.4	458.8	416.8	364.3	308.2	255.7	206.7	157.6	108.6	63.0
125°	483.4	451.8	416.8	374.8	325.7	276.7	231.2	185.6	136.6	94.6	52.5
127.5°	437.8	406.3	371.3	332.7	294.2	248.7	206.7	164.6	122.6	84.1	45.5
130°	392.3	364.3	332.7	301.2	262.7	220.7	185.6	143.6	105.1	66.5	38.5
132.5°	346.8	325.7	297.7	266.2	231.2	199.6	161.1	126.1	91.1	59.5	35.0
135°	308.2	287.2	262.7	234.7	206.7	175.1	140.1	108.6	77.1	49.0	28.0
137.5°	273.2	255.7	231.2	206.7	182.1	150.6	122.6	91.1	63.0	42.0	21.0
140°	241.7	224.2	203.1	178.6	157.6	129.6	101.6	73.6	56.0	35.0	17.5
142.5°	210.2	192.6	175.1	154.1	133.1	108.6	84.1	63.0	45.5	28.0	17.5
145°	178.6	164.6	147.1	129.6	108.6	87.6	70.1	52.5	35.0	21.0	14.0
147.5°	147.1	136.6	119.1	105.1	87.6	70.1	56.0	42.0	28.0	17.5	10.5
150°	119.1	108.6	94.6	80.6	70.1	56.0	45.5	31.5	21.0	17.5	10.5
152.5°	91.1	84.1	73.6	66.5	56.0	42.0	31.5	24.5	17.5	14.0	7.0
155°	73.6	66.5	59.5	49.0	42.0	31.5	24.5	17.5	14.0	10.5	7.0
157.5°	52.5	49.0	42.0	35.0	28.0	21.0	17.5	17.5	10.5	7.0	3.5
160°	35.0	31.5	28.0	21.0	17.5	17.5	14.0	10.5	7.0	7.0	3.5
162.5°	21.0	17.5	17.5	17.5	14.0	14.0	10.5	7.0	7.0	3.5	3.5
165°	14.0	14.0	14.0	10.5	10.5	10.5	7.0	3.5	3.5	3.5	3.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4
2.5°	3323.9	3313.4	3327.4	3352.0	3355.5	3352.0	3345.0	3355.5	3369.5	3366.0	3341.5
5°	3316.9	3302.9	3316.9	3341.5	3341.5	3338.0	3334.5	3345.0	3359.0	3355.5	3334.5
7.5°	3295.9	3281.9	3295.9	3316.9	3320.4	3313.4	3313.4	3323.9	3338.0	3334.5	3316.9
10°	3267.9	3253.9	3260.9	3285.4	3292.4	3285.4	3285.4	3295.9	3313.4	3309.9	3288.9
12.5°	3225.9	3215.4	3222.4	3243.4	3250.4	3246.9	3243.4	3257.4	3274.9	3274.9	3253.9
15°	3180.3	3166.3	3173.3	3197.9	3201.4	3194.3	3197.9	3208.4	3229.4	3229.4	3211.9
17.5°	3127.8	3110.3	3120.8	3138.3	3141.8	3141.8	3141.8	3155.8	3180.3	3176.8	3162.8
20°	3068.3	3043.7	3050.7	3068.3	3075.3	3075.3	3075.3	3099.8	3117.3	3117.3	3103.3
22.5°	2998.2	2980.7	2980.7	2998.2	3008.7	3005.2	3005.2	3026.2	3050.7	3047.2	3047.2
25°	2917.6	2903.6	2896.6	2917.6	2921.1	2924.7	2931.7	2952.7	2980.7	2980.7	2984.2
27.5°	2833.6	2819.6	2816.1	2833.6	2837.1	2840.6	2847.6	2872.1	2900.1	2903.6	2910.6
30°	2753.0	2732.0	2725.0	2739.0	2746.0	2749.5	2749.5	2788.1	2812.6	2823.1	2837.1
32.5°	2658.5	2637.4	2619.9	2644.4	2647.9	2655.0	2658.5	2697.0	2725.0	2742.5	2763.5
35°	2563.9	2528.9	2521.9	2539.4	2546.4	2549.9	2556.9	2598.9	2637.4	2651.4	2679.5
37.5°	2458.8	2434.3	2413.3	2430.8	2437.8	2441.3	2462.3	2500.8	2539.4	2560.4	2588.4
40°	2360.7	2329.2	2311.7	2322.2	2329.2	2332.7	2357.2	2399.3	2444.8	2469.3	2504.3
42.5°	2252.2	2210.1	2196.1	2206.6	2210.1	2220.6	2241.6	2297.7	2343.2	2378.2	2406.3
45°	2143.6	2112.1	2080.5	2091.0	2094.5	2101.5	2133.1	2192.6	2241.6	2283.7	2315.2
47.5°	2031.5	1993.0	1961.4	1968.4	1982.5	1986.0	2021.0	2091.0	2136.6	2182.1	2224.1
50°	1919.4	1866.9	1842.4	1842.4	1849.4	1866.9	1912.4	1982.5	2031.5	2084.0	2129.6
52.5°	1803.8	1754.8	1726.8	1730.3	1737.3	1758.3	1800.3	1870.4	1926.4	1982.5	2038.5
55°	1688.2	1635.7	1607.7	1600.7	1607.7	1635.7	1684.7	1758.3	1814.3	1880.9	1940.4
57.5°	1572.7	1509.6	1485.1	1474.6	1481.6	1516.6	1565.7	1642.7	1712.8	1775.8	1845.9
60°	1446.6	1397.5	1355.5	1331.0	1348.5	1394.0	1446.6	1527.1	1600.7	1670.7	1747.8
62.5°	1338.0	1274.9	1229.4	1204.9	1222.4	1260.9	1334.5	1411.5	1492.1	1572.7	1649.7
65°	1215.4	1152.3	1099.8	1075.3	1092.8	1138.3	1211.9	1296.0	1383.5	1464.1	1555.1
67.5°	1096.3	1029.8	966.7	942.2	963.2	1012.2	1092.8	1187.4	1281.9	1366.0	1464.1
70°	980.7	907.2	840.6	823.1	837.1	903.7	980.7	1075.3	1173.4	1271.4	1373.0
72.5°	875.6	784.6	714.5	693.5	711.0	784.6	872.1	970.2	1075.3	1180.4	1288.9
75°	753.1	669.0	591.9	567.4	588.4	655.0	763.6	868.6	980.7	1092.8	1194.4
77.5°	655.0	556.9	476.4	437.8	472.8	556.9	662.0	774.1	889.7	1005.2	1120.8
80°	553.4	451.8	364.3	322.2	360.8	451.8	556.9	679.5	809.1	924.7	1029.8
82.5°	462.3	353.8	262.7	217.2	259.2	360.8	476.4	598.9	725.0	840.6	963.2
85°	378.3	266.2	171.6	122.6	182.1	273.2	395.8	521.9	651.5	770.6	889.7
87.5°	308.2	199.6	105.1	52.5	112.1	213.7	329.2	455.3	584.9	704.0	816.1
90°	252.2	143.6	56.0	7.0	66.5	161.1	273.2	395.8	518.4	641.0	753.1
92.5°	206.7	108.6	31.5	3.5	42.0	129.6	234.7	350.3	469.3	588.4	697.0
95°	171.6	84.1	21.0	3.5	31.5	101.6	199.6	311.7	423.8	539.4	648.0
97.5°	147.1	70.1	17.5	3.5	24.5	87.6	171.6	276.7	385.3	493.9	598.9
100°	126.1	56.0	14.0	3.5	21.0	73.6	150.6	245.2	346.8	451.8	553.4
102.5°	108.6	45.5	10.5	3.5	17.5	63.0	133.1	220.7	311.7	413.3	511.4
105°	94.6	38.5	10.5	3.5	14.0	56.0	119.1	196.1	287.2	378.3	472.8
107.5°	80.6	31.5	7.0	3.5	10.5	45.5	105.1	178.6	259.2	346.8	434.3
110°	70.1	28.0	7.0	3.5	10.5	42.0	91.1	161.1	234.7	315.2	399.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	59.5	21.0	7.0	3.5	7.0	35.0	80.6	143.6	213.7	287.2	367.8
115°	52.5	17.5	3.5	3.5	7.0	31.5	73.6	129.6	192.6	262.7	336.2
117.5°	42.0	14.0	3.5	3.5	3.5	24.5	63.0	115.6	175.1	241.7	308.2
120°	35.0	14.0	3.5	3.5	3.5	21.0	56.0	101.6	157.6	217.2	280.2
122.5°	31.5	10.5	3.5	3.5	3.5	17.5	49.0	91.1	140.1	196.1	255.7
125°	28.0	10.5	3.5	3.5	3.5	14.0	42.0	80.6	126.1	175.1	231.2
127.5°	21.0	10.5	3.5	3.5	3.5	10.5	38.5	70.1	112.1	157.6	206.7
130°	17.5	7.0	3.5	3.5	3.5	10.5	31.5	63.0	98.1	140.1	185.6
132.5°	14.0	7.0	3.5	3.5	3.5	7.0	24.5	49.0	84.1	122.6	164.6
135°	14.0	7.0	3.5	3.5	3.5	7.0	17.5	42.0	70.1	105.1	140.1
137.5°	14.0	3.5	3.5	3.5	3.5	7.0	14.0	31.5	56.0	84.1	115.6
140°	10.5	3.5	3.5	3.5	3.5	3.5	10.5	24.5	45.5	70.1	98.1
142.5°	10.5	3.5	3.5	3.5	3.5	3.5	10.5	17.5	35.0	56.0	77.1
145°	7.0	3.5	3.5	3.5	3.5	3.5	7.0	14.0	28.0	42.0	63.0
147.5°	7.0	3.5	3.5	3.5	3.5	3.5	7.0	10.5	21.0	35.0	49.0
150°	7.0	3.5	3.5	3.5	3.5	3.5	7.0	10.5	14.0	24.5	38.5
152.5°	3.5	3.5	3.5	3.5	3.5	3.5	7.0	7.0	10.5	17.5	24.5
155°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	7.0	10.5	14.0	17.5
157.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	7.0	7.0	10.5	14.0
160°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	7.0	7.0	10.5
162.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	7.0	7.0
165°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4
2.5°	3330.9	3306.4	3313.4	3309.9	3316.9	3327.4	3327.4	3323.9	3323.9	3316.9	3309.9
5°	3323.9	3299.4	3309.9	3306.4	3313.4	3323.9	3323.9	3320.4	3320.4	3309.9	3306.4
7.5°	3302.9	3285.4	3292.4	3292.4	3299.4	3309.9	3309.9	3306.4	3306.4	3295.9	3292.4
10°	3281.9	3260.9	3271.4	3271.4	3278.4	3292.4	3292.4	3288.9	3288.9	3278.4	3274.9
12.5°	3246.9	3225.9	3243.4	3246.9	3253.9	3267.9	3264.4	3264.4	3264.4	3253.9	3250.4
15°	3204.9	3190.8	3208.4	3211.9	3222.4	3239.9	3239.9	3239.9	3239.9	3229.4	3225.9
17.5°	3159.3	3148.8	3166.3	3173.3	3187.3	3204.9	3204.9	3208.4	3211.9	3204.9	3201.4
20°	3106.8	3099.8	3117.3	3131.3	3152.3	3169.8	3176.8	3180.3	3187.3	3180.3	3176.8
22.5°	3047.2	3047.2	3071.8	3085.8	3110.3	3127.8	3138.3	3148.8	3155.8	3148.8	3145.3
25°	2980.7	2991.2	3015.7	3040.2	3068.3	3085.8	3096.3	3110.3	3117.3	3113.8	3110.3
27.5°	2917.6	2931.7	2963.2	2987.7	3012.2	3040.2	3050.7	3068.3	3075.3	3075.3	3071.8
30°	2844.1	2865.1	2900.1	2928.2	2959.7	2987.7	3001.7	3019.2	3029.7	3022.7	3026.2
32.5°	2774.0	2809.1	2837.1	2868.6	2903.6	2931.7	2949.2	2970.2	2980.7	2977.2	2980.7
35°	2697.0	2732.0	2770.5	2802.1	2844.1	2872.1	2896.6	2914.1	2928.2	2924.7	2924.7
37.5°	2612.9	2658.5	2697.0	2739.0	2777.5	2809.1	2833.6	2854.6	2868.6	2868.6	2868.6
40°	2532.4	2581.4	2619.9	2669.0	2718.0	2746.0	2774.0	2795.1	2809.1	2812.6	2816.1
42.5°	2444.8	2497.3	2542.9	2595.4	2644.4	2679.5	2711.0	2735.5	2749.5	2756.5	2753.0
45°	2364.2	2413.3	2465.8	2525.4	2570.9	2605.9	2644.4	2672.5	2686.5	2690.0	2693.5
47.5°	2273.2	2329.2	2388.8	2448.3	2493.8	2539.4	2574.4	2602.4	2616.4	2626.9	2626.9
50°	2185.6	2245.2	2311.7	2374.7	2423.8	2469.3	2504.3	2535.9	2553.4	2560.4	2563.9
52.5°	2105.0	2161.1	2231.1	2294.2	2343.2	2388.8	2434.3	2469.3	2486.8	2493.8	2493.8
55°	2007.0	2077.0	2154.1	2213.6	2266.2	2318.7	2364.2	2399.3	2416.8	2427.3	2434.3
57.5°	1915.9	1989.5	2070.0	2133.1	2196.1	2245.2	2287.2	2332.7	2346.7	2360.7	2364.2
60°	1828.3	1901.9	1979.0	2049.0	2112.1	2164.6	2213.6	2252.2	2276.7	2283.7	2290.7
62.5°	1737.3	1814.3	1894.9	1964.9	2031.5	2094.5	2140.1	2175.1	2203.1	2213.6	2220.6
65°	1649.7	1730.3	1810.8	1884.4	1954.4	2017.5	2063.0	2098.0	2126.1	2143.6	2147.1
67.5°	1555.1	1642.7	1726.8	1803.8	1873.9	1940.4	1986.0	2021.0	2049.0	2070.0	2073.5
70°	1467.6	1558.6	1642.7	1726.8	1796.8	1863.4	1912.4	1947.4	1979.0	1993.0	2000.0
72.5°	1383.5	1478.1	1565.7	1649.7	1719.8	1786.3	1838.9	1873.9	1905.4	1922.9	1926.4
75°	1303.0	1397.5	1492.1	1572.7	1646.2	1712.8	1765.3	1803.8	1831.8	1849.4	1856.4
77.5°	1222.4	1320.5	1415.0	1495.6	1572.7	1639.2	1684.7	1730.3	1758.3	1779.3	1779.3
80°	1141.8	1243.4	1341.5	1422.0	1499.1	1558.6	1611.2	1656.7	1684.7	1705.8	1705.8
82.5°	1071.8	1169.9	1264.4	1345.0	1422.0	1488.6	1541.1	1583.2	1614.7	1628.7	1632.2
85°	991.2	1099.8	1187.4	1274.9	1348.5	1411.5	1464.1	1509.6	1537.6	1551.6	1558.6
87.5°	924.7	1029.8	1124.3	1201.4	1274.9	1338.0	1397.5	1436.1	1464.1	1481.6	1488.6
90°	861.6	963.2	1057.8	1134.8	1211.9	1271.4	1327.5	1366.0	1397.5	1411.5	1418.5
92.5°	805.6	907.2	998.2	1075.3	1148.8	1215.4	1267.9	1306.5	1334.5	1348.5	1359.0
95°	753.1	851.1	938.7	1022.8	1092.8	1152.3	1208.4	1246.9	1278.4	1288.9	1299.5
97.5°	700.5	795.1	882.6	963.2	1036.8	1092.8	1145.3	1183.9	1208.4	1225.9	1236.4
100°	655.0	746.0	830.1	907.2	977.2	1029.8	1085.8	1120.8	1145.3	1159.4	1173.4
102.5°	605.9	697.0	777.6	851.1	924.7	973.7	1026.3	1061.3	1082.3	1106.8	1106.8
105°	563.9	648.0	728.5	798.6	861.6	921.2	966.7	1001.7	1026.3	1043.8	1043.8
107.5°	518.4	602.4	679.5	753.1	812.6	868.6	910.7	942.2	970.2	980.7	991.2
110°	483.4	556.9	634.0	704.0	760.1	812.6	854.6	889.7	914.2	924.7	931.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	441.3	518.4	588.4	655.0	711.0	760.1	802.1	830.1	854.6	868.6	872.1
115°	406.3	479.9	542.9	605.9	665.5	707.5	746.0	774.1	798.6	809.1	816.1
117.5°	374.8	441.3	504.4	556.9	613.0	658.5	697.0	721.5	742.5	756.6	763.6
120°	343.3	406.3	462.3	514.9	567.4	609.4	644.5	669.0	693.5	704.0	704.0
122.5°	311.7	371.3	423.8	472.8	521.9	560.4	598.9	620.0	641.0	651.5	651.5
125°	283.7	339.7	388.8	434.3	479.9	514.9	546.4	570.9	591.9	598.9	598.9
127.5°	255.7	308.2	353.8	395.8	434.3	469.3	500.9	525.4	542.9	549.9	549.9
130°	231.2	276.7	318.7	360.8	399.3	427.3	458.8	479.9	490.4	500.9	504.4
132.5°	206.7	248.7	287.2	322.2	360.8	388.8	413.3	434.3	444.8	455.3	458.8
135°	182.1	220.7	255.7	290.7	322.2	350.3	371.3	388.8	402.8	409.8	413.3
137.5°	154.1	196.1	227.7	255.7	290.7	311.7	336.2	346.8	360.8	367.8	367.8
140°	129.6	161.1	196.1	224.2	252.2	273.2	294.2	311.7	322.2	325.7	325.7
142.5°	105.1	133.1	161.1	196.1	220.7	238.2	259.2	273.2	280.2	283.7	287.2
145°	84.1	105.1	129.6	161.1	189.1	210.2	220.7	234.7	241.7	245.2	248.7
147.5°	63.0	84.1	105.1	126.1	154.1	175.1	185.6	199.6	206.7	210.2	210.2
150°	49.0	63.0	77.1	98.1	119.1	143.6	157.6	168.1	171.6	175.1	175.1
152.5°	35.0	49.0	59.5	73.6	87.6	108.6	129.6	136.6	140.1	143.6	143.6
155°	24.5	35.0	42.0	52.5	63.0	80.6	98.1	108.6	112.1	115.6	115.6
157.5°	17.5	24.5	28.0	38.5	45.5	52.5	66.5	84.1	87.6	87.6	87.6
160°	10.5	14.0	17.5	24.5	28.0	35.0	42.0	52.5	63.0	63.0	63.0
162.5°	7.0	10.5	10.5	14.0	14.0	21.0	24.5	28.0	38.5	42.0	42.0
165°	3.5	7.0	7.0	7.0	7.0	7.0	10.5	10.5	17.5	21.0	21.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4
2.5°	3313.4	3320.4	3316.9	3316.9	3316.9	3323.9	3316.9	3285.4	3292.4	3299.4	3306.4
5°	3309.9	3313.4	3313.4	3309.9	3309.9	3316.9	3309.9	3278.4	3285.4	3292.4	3295.9
7.5°	3295.9	3299.4	3299.4	3299.4	3295.9	3302.9	3292.4	3264.4	3264.4	3271.4	3274.9
10°	3278.4	3285.4	3281.9	3278.4	3278.4	3278.4	3271.4	3239.9	3239.9	3243.4	3246.9
12.5°	3257.4	3257.4	3257.4	3253.9	3250.4	3250.4	3243.4	3211.9	3208.4	3215.4	3211.9
15°	3229.4	3236.4	3229.4	3225.9	3218.9	3218.9	3208.4	3176.8	3169.8	3173.3	3169.8
17.5°	3204.9	3208.4	3201.4	3194.3	3187.3	3183.8	3173.3	3138.3	3127.8	3131.3	3124.3
20°	3180.3	3180.3	3173.3	3166.3	3155.8	3145.3	3131.3	3096.3	3078.8	3078.8	3064.8
22.5°	3148.8	3148.8	3141.8	3131.3	3120.8	3106.8	3092.8	3057.7	3029.7	3022.7	3012.2
25°	3113.8	3110.3	3106.8	3096.3	3075.3	3061.3	3047.2	3008.7	2977.2	2963.2	2945.7
27.5°	3071.8	3071.8	3061.3	3050.7	3029.7	3012.2	2994.7	2959.7	2917.6	2900.1	2875.6
30°	3026.2	3026.2	3015.7	3001.7	2980.7	2959.7	2938.7	2896.6	2854.6	2830.1	2802.1
32.5°	2980.7	2977.2	2966.7	2952.7	2931.7	2900.1	2882.6	2840.6	2791.6	2763.5	2725.0
35°	2924.7	2921.1	2910.6	2893.1	2865.1	2840.6	2812.6	2774.0	2718.0	2683.0	2640.9
37.5°	2868.6	2865.1	2858.1	2833.6	2805.6	2777.5	2742.5	2704.0	2651.4	2605.9	2563.9
40°	2812.6	2809.1	2795.1	2777.5	2742.5	2707.5	2672.5	2633.9	2577.9	2525.4	2479.8
42.5°	2753.0	2749.5	2732.0	2711.0	2672.5	2637.4	2595.4	2553.4	2497.3	2434.3	2388.8
45°	2693.5	2686.5	2669.0	2644.4	2602.4	2563.9	2521.9	2472.8	2416.8	2357.2	2297.7
47.5°	2630.4	2619.9	2602.4	2567.4	2532.4	2490.3	2441.3	2388.8	2332.7	2266.2	2203.1
50°	2560.4	2553.4	2532.4	2500.8	2458.8	2416.8	2360.7	2308.2	2241.6	2178.6	2101.5
52.5°	2493.8	2479.8	2462.3	2427.3	2385.3	2339.7	2280.2	2217.1	2150.6	2091.0	2010.5
55°	2423.8	2416.8	2392.3	2364.2	2311.7	2259.2	2203.1	2136.6	2063.0	1993.0	1915.9
57.5°	2357.2	2343.2	2322.2	2283.7	2238.1	2185.6	2126.1	2056.0	1975.5	1901.9	1817.8
60°	2290.7	2269.7	2245.2	2210.1	2161.1	2105.0	2042.0	1968.4	1887.9	1807.3	1719.8
62.5°	2217.1	2199.6	2171.6	2136.6	2087.5	2028.0	1961.4	1884.4	1807.3	1723.3	1628.7
65°	2143.6	2126.1	2098.0	2063.0	2014.0	1947.4	1877.4	1800.3	1712.8	1632.2	1530.6
67.5°	2070.0	2052.5	2021.0	1982.5	1933.4	1870.4	1796.8	1716.3	1628.7	1541.1	1436.1
70°	1996.5	1975.5	1947.4	1905.4	1856.4	1789.8	1716.3	1632.2	1544.6	1450.1	1345.0
72.5°	1922.9	1905.4	1870.4	1831.8	1779.3	1712.8	1639.2	1555.1	1464.1	1366.0	1260.9
75°	1849.4	1828.3	1803.8	1758.3	1702.3	1639.2	1562.1	1478.1	1380.0	1285.4	1176.9
77.5°	1775.8	1758.3	1726.8	1681.2	1628.7	1562.1	1485.1	1401.0	1303.0	1204.9	1089.3
80°	1702.3	1681.2	1656.7	1614.7	1555.1	1488.6	1408.0	1324.0	1225.9	1124.3	1008.7
82.5°	1628.7	1607.7	1579.7	1537.6	1481.6	1415.0	1338.0	1246.9	1148.8	1043.8	935.2
85°	1555.1	1537.6	1506.1	1464.1	1404.5	1338.0	1260.9	1180.4	1075.3	970.2	861.6
87.5°	1481.6	1464.1	1432.6	1390.5	1334.5	1267.9	1190.9	1106.8	1005.2	907.2	788.1
90°	1411.5	1397.5	1366.0	1324.0	1267.9	1201.4	1131.3	1040.3	942.2	844.1	732.0
92.5°	1348.5	1334.5	1306.5	1264.4	1215.4	1141.8	1071.8	984.2	886.2	784.6	676.0
95°	1292.5	1274.9	1246.9	1208.4	1148.8	1085.8	1015.7	928.2	833.6	732.0	627.0
97.5°	1229.4	1211.9	1183.9	1141.8	1092.8	1026.3	956.2	872.1	777.6	683.0	577.9
100°	1166.4	1148.8	1117.3	1082.3	1033.3	966.7	900.2	816.1	728.5	637.5	535.9
102.5°	1103.3	1085.8	1057.8	1022.8	973.7	914.2	847.6	767.1	679.5	588.4	493.9
105°	1043.8	1026.3	998.2	963.2	917.7	858.1	788.1	718.0	634.0	546.4	455.3
107.5°	984.2	966.7	942.2	907.2	861.6	805.6	739.0	665.5	588.4	504.4	416.8
110°	924.7	910.7	882.6	851.1	805.6	749.6	690.0	620.0	542.9	465.8	381.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	868.6	854.6	826.6	791.6	753.1	700.5	641.0	574.4	500.9	427.3	346.8
115°	812.6	795.1	770.6	739.0	700.5	651.5	595.4	535.9	462.3	392.3	318.7
117.5°	756.6	742.5	718.0	686.5	651.5	602.4	549.9	493.9	423.8	357.3	290.7
120°	700.5	690.0	665.5	637.5	602.4	556.9	507.9	451.8	388.8	325.7	262.7
122.5°	648.0	637.5	613.0	588.4	553.4	511.4	465.8	413.3	357.3	297.7	241.7
125°	598.9	584.9	563.9	539.4	507.9	469.3	423.8	374.8	322.2	269.7	217.2
127.5°	546.4	535.9	521.9	493.9	462.3	427.3	385.3	343.3	294.2	245.2	196.1
130°	504.4	490.4	472.8	451.8	423.8	388.8	350.3	308.2	266.2	220.7	171.6
132.5°	455.3	441.3	427.3	406.3	381.8	350.3	315.2	276.7	238.2	196.1	154.1
135°	409.8	399.3	385.3	364.3	339.7	315.2	280.2	245.2	210.2	171.6	136.6
137.5°	367.8	357.3	343.3	329.2	304.7	280.2	248.7	217.2	185.6	150.6	119.1
140°	325.7	318.7	304.7	290.7	269.7	245.2	217.2	189.1	161.1	129.6	101.6
142.5°	283.7	276.7	266.2	252.2	234.7	213.7	189.1	164.6	136.6	112.1	87.6
145°	245.2	241.7	231.2	217.2	203.1	182.1	161.1	140.1	115.6	94.6	70.1
147.5°	206.7	203.1	196.1	185.6	171.6	154.1	136.6	115.6	98.1	77.1	56.0
150°	171.6	168.1	164.6	150.6	143.6	126.1	112.1	94.6	80.6	59.5	45.5
152.5°	140.1	140.1	133.1	122.6	115.6	101.6	91.1	77.1	63.0	49.0	35.0
155°	112.1	108.6	105.1	98.1	91.1	80.6	70.1	59.5	49.0	35.0	24.5
157.5°	87.6	84.1	80.6	73.6	66.5	63.0	52.5	42.0	31.5	24.5	17.5
160°	63.0	59.5	56.0	52.5	49.0	42.0	35.0	28.0	21.0	14.0	10.5
162.5°	42.0	38.5	38.5	35.0	31.5	24.5	21.0	17.5	14.0	10.5	7.0
165°	21.0	21.0	17.5	17.5	14.0	10.5	10.5	10.5	7.0	7.0	3.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4
2.5°	3302.9	3302.9	3316.9	3313.4	3302.9	3323.9	3348.5
5°	3292.4	3292.4	3302.9	3302.9	3292.4	3313.4	3334.5
7.5°	3274.9	3271.4	3281.9	3281.9	3267.9	3285.4	3309.9
10°	3243.4	3239.9	3250.4	3250.4	3236.4	3253.9	3274.9
12.5°	3208.4	3201.4	3211.9	3208.4	3194.3	3211.9	3232.9
15°	3162.8	3159.3	3166.3	3159.3	3145.3	3162.8	3183.8
17.5°	3117.3	3106.8	3110.3	3110.3	3085.8	3103.3	3120.8
20°	3057.7	3043.7	3047.2	3043.7	3026.2	3036.7	3057.7
22.5°	2998.2	2977.2	2977.2	2973.7	2952.7	2966.7	2984.2
25°	2924.7	2900.1	2900.1	2896.6	2872.1	2882.6	2900.1
27.5°	2851.1	2826.6	2816.1	2812.6	2788.1	2788.1	2812.6
30°	2774.0	2739.0	2732.0	2721.5	2697.0	2697.0	2718.0
32.5°	2700.5	2651.4	2637.4	2623.4	2598.9	2595.4	2619.9
35°	2602.4	2563.9	2539.4	2525.4	2497.3	2490.3	2511.3
37.5°	2521.9	2472.8	2437.8	2420.3	2392.3	2381.8	2409.8
40°	2434.3	2381.8	2336.2	2325.7	2283.7	2269.7	2294.2
42.5°	2336.2	2280.2	2234.6	2213.6	2182.1	2168.1	2171.6
45°	2238.1	2178.6	2129.6	2101.5	2070.0	2045.5	2059.5
47.5°	2136.6	2084.0	2024.5	1982.5	1943.9	1926.4	1933.4
50°	2035.0	1972.0	1915.9	1870.4	1824.8	1803.8	1817.8
52.5°	1933.4	1866.9	1803.8	1754.8	1702.3	1681.2	1684.7
55°	1835.3	1765.3	1691.7	1639.2	1590.2	1558.6	1551.6
57.5°	1737.3	1660.2	1583.2	1523.6	1460.6	1432.6	1422.0
60°	1632.2	1551.6	1471.1	1401.0	1334.5	1303.0	1288.9
62.5°	1534.1	1446.6	1355.5	1281.9	1215.4	1173.4	1162.9
65°	1439.6	1338.0	1246.9	1162.9	1089.3	1043.8	1029.8
67.5°	1338.0	1232.9	1134.8	1043.8	973.7	914.2	907.2
70°	1243.4	1131.3	1022.8	928.2	851.1	791.6	763.6
72.5°	1148.8	1033.3	921.2	819.6	721.5	665.5	644.5
75°	1057.8	938.7	819.6	714.5	605.9	539.4	518.4
77.5°	973.7	851.1	725.0	609.4	507.9	423.8	395.8
80°	893.2	767.1	634.0	514.9	406.3	315.2	283.7
82.5°	809.1	690.0	553.4	427.3	315.2	220.7	182.1
85°	735.5	616.5	479.9	353.8	241.7	140.1	98.1
87.5°	676.0	546.4	423.8	297.7	182.1	80.6	28.0
90°	616.5	490.4	367.8	245.2	136.6	45.5	3.5
92.5°	563.9	444.8	322.2	210.2	105.1	31.5	3.5
95°	514.9	399.3	283.7	175.1	84.1	21.0	3.5
97.5°	469.3	360.8	252.2	150.6	70.1	17.5	3.5
100°	430.8	325.7	224.2	133.1	59.5	14.0	3.5
102.5°	392.3	294.2	199.6	115.6	52.5	10.5	3.5
105°	360.8	266.2	178.6	105.1	45.5	10.5	3.5
107.5°	329.2	241.7	161.1	91.1	38.5	7.0	3.5
110°	297.7	220.7	143.6	80.6	35.0	7.0	3.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	273.2	199.6	129.6	73.6	28.0	7.0	3.5
115°	248.7	178.6	115.6	63.0	24.5	3.5	3.5
117.5°	224.2	161.1	101.6	56.0	21.0	3.5	3.5
120°	203.1	143.6	91.1	49.0	17.5	3.5	3.5
122.5°	182.1	129.6	80.6	42.0	14.0	3.5	3.5
125°	164.6	115.6	70.1	35.0	10.5	3.5	3.5
127.5°	147.1	101.6	63.0	31.5	10.5	3.5	3.5
130°	129.6	91.1	52.5	24.5	7.0	3.5	3.5
132.5°	115.6	77.1	45.5	21.0	7.0	3.5	3.5
135°	101.6	66.5	38.5	14.0	7.0	3.5	3.5
137.5°	87.6	56.0	31.5	10.5	3.5	3.5	3.5
140°	73.6	49.0	24.5	10.5	3.5	3.5	3.5
142.5°	63.0	38.5	17.5	7.0	3.5	3.5	3.5
145°	49.0	31.5	14.0	7.0	3.5	3.5	3.5
147.5°	38.5	24.5	10.5	7.0	3.5	3.5	3.5
150°	28.0	17.5	10.5	3.5	3.5	3.5	3.5
152.5°	21.0	14.0	7.0	3.5	3.5	3.5	3.5
155°	14.0	10.5	7.0	3.5	3.5	3.5	3.5
157.5°	10.5	7.0	3.5	3.5	3.5	3.5	3.5
160°	7.0	3.5	3.5	3.5	3.5	3.5	3.5
162.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
165°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)